Application Serial No. 09/901,120 Amendment dated June 8, 2005 Reply to Office action of February 8, 2005

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-83 (Cancelled)
- 84. (Currently amended) A system for fixation of a sample comprising:
- a reaction chamber;

an ultrasound transducer disposed operatively <u>movably</u> on said reaction chamber; and a central processing unit controlling a frequency of <u>ultrasound emitted by</u> said ultrasound transducer:

wherein <u>said</u> ultrasound from said ultrasound transducer is applied to a sample in said reaction chamber during a fixation process.

- 85. (Original) The system of claim 84 comprising more than one transducer.
- 86. (Original) The system of claim 84 further comprising one or more sensors.
- 87. (Original) The system of claim 84 further comprising means for heating or cooling said reaction chamber.
 - 88. (Original) The system of claim 84 further comprising a pump.
 - 89. (Original) The system of claim 84 further comprising a distributor.
- 90. (Previously presented) The system of claim 84 wherein said sample is a tissue sample, a membrane, a membrane filter, a tissue sample mounted on a slide, a nucleic acid chip, a microarray of nucleic acid, a microarray of tissue, or an immuno chip.
- 91. (Original) The system of claim 84 further comprising means for sampling reaction fluid.
- 92. (New) The system of claim 84, wherein said ultrasound transducer is disposed within about 2 inches of said sample.
- 93. (New) The system of claim 92, wherein said ultrasound transducer is disposed within about 1 inch of said sample.